

LISTING OF CLAIMS:

Please amend the claims as follows. The claims are in the format as required by 37 C.F.R. § 1.121.

1. (Currently Amended) A method for searching an applied data model, **comprising:**
initiating a typing system, wherein the typing system defines and
instantiates components and relationships types for searching the applied
data model;
translating a query to a set of statements operable to search the applied data model to an arbitrary level wherein the applied data model comprises at least one component and an associated relationship and the query is a component query or a relationship query;
searching the applied data model to the arbitrary level based on the set of statements;
producing a set of replies to the set of statements wherein the set of replies includes at least one component or one relationship at the arbitrary level; and
processing the set of replies based on the query.
2. (Original) The method of claim 1, wherein the set of statements is tailored to a table schema.
3. (Original) The method of claim 2, wherein the table schema implements a data model.
4. (Original) The method of claim 3, wherein the table schema represents a graph of the applied data model.
5. (Original) The method of claim 4, wherein the set of statements is operable to perform a graph search.
6. (Original) The method of claim 5, wherein the graph search is a breadth first graph search.
7. (Original) The method of claim 6, wherein the set of statements is in SQL.

8. (Original) The method of claim 2, wherein processing the set of replies comprises structuring the results.

9. (Original) The method of claim 8, wherein the results are structured based on the query.

10. (Original) The method of claim 9, further comprising returning the processed results.

11. (Original) The method of claim 10, wherein the processed results are formatted based on the query.

12. (Currently Amended) A computer readable medium having code for modeling an environment, wherein the code is embodied within computer readable medium, the code comprising instructions for:

initiating a typing system, wherein the typing system defines and instantiates components and relationships types for searching the applied data model;

translating a query to a set of statements operable to search the applied data model to an arbitrary level wherein the applied data model comprises at least one component and an associated relationship and the query is a component query or a relationship query;

searching the applied data model to the arbitrary level based on the set of statements;

producing a set of replies to the set of statements wherein the set of replies includes at least one component or one relationship at the arbitrary level; and

processing the set of replies based on the query.

13. (Original) The computer readable medium of claim 12, wherein the set of statements is tailored to a table schema.

14. (Original) The computer readable medium of claim 13, wherein the table schema implements a data model.

15. (Original) The computer readable medium of claim 14, wherein the table schema represents a graph of the applied data model.

16. (Original) The computer readable medium of claim 15, wherein the set of statements is operable to perform a graph search.

17. (Original) The computer readable medium of claim 16, wherein the graph search is a breadth first graph search.

18. (Original) The computer readable medium of claim 17, wherein the set of statements is in SQL.

19. (Original) The computer readable medium of claim 13, wherein processing the set of replies comprises structuring the results.

20. (Original) The computer readable medium of claim 19, wherein the results are structured based on the query.

21. (Original) The computer readable medium of claim 12, further comprising returning the processed results.

22. (Original) The computer readable medium of claim 21, wherein the processed results are formatted based on the query.

23. (Currently Amended) A method for searching an applied data model, comprising:
initiating a typing system, wherein the typing system defines and instantiates components and relationships types for searching the applied data model;

translating a query to a set of statements operable to search the applied data model to an arbitrary level wherein the applied data model comprises at least one component and an associated relationship, the query is a component query or a relationship query and the set of statements is tailored to a table schema which implements the applied data model;

searching the applied data model to the arbitrary level based on the set of statements, wherein the set of statements implements a graph search;

producing a set of results to the set of statements wherein the set of results includes at least one component or one relationship at the arbitrary level; and

processing the set of results based on the query, wherein processing the set of results includes structuring the set of results based on the query.

24. (Previously Presented) The method of claim 1, wherein the query specifies the arbitrary level.

25. (Previously Presented) The method of claim 12, wherein the query specifies the arbitrary level.

26. (Previously Presented) The method of claim 23, wherein the query specifies the arbitrary level.